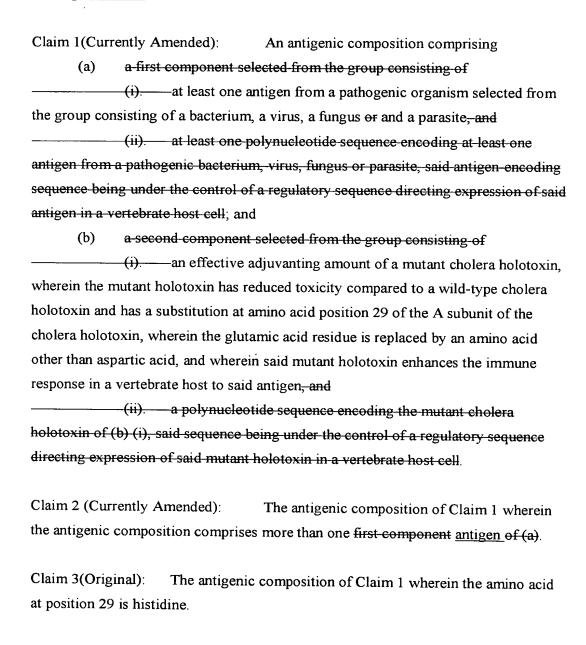
## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**:



Claim 4(Currently Amended): The antigenic composition of Claim 1 wherein the first component antigen of (a) is selected from the group consisting of the Haemophilus influenzae P4 outer membrane protein, the Haemophilus influenzae P6 outer membrane protein, the Haemophilus influenzae adherence and penetration protein (Haps), the Helicobacter pylori urease protein, the Neisseria meningitidis Group B class 1 outer membrane protein (PorA), the respiratory syncytial virus fusion protein, a rotavirus virus-like particle and the herpes simplex virus (HSV) type 2 glycoprotein D (gD2).

Claim 5(Currently Amended): The antigenic composition of Claim 4 wherein at least one first component the antigen of (a) is selected from the group consisting of the *Haemophilus influenzae* P4 outer membrane protein, the *Haemophilus influenzae* P6 outer membrane protein, the *Haemophilus influenzae* Hap<sub>s</sub> protein, or and any combination thereof.

Claim 6(Currently Amended): The antigenic composition of Claim 4 wherein the first component antigen of (a) is the *Helicobacter pylori* urease protein.

Claim 7(Currently Amended): The antigenic composition of Claim 4 at least one first component the antigen of (a) is selected from the group consisting of the Neisseria meningitidis rpilin, Neisseria meningitidis PorA protein of and any combination thereof.

Claim 8(Currently Amended): The antigenic composition of Claim 4 wherein the first component antigen of (a) is the respiratory syncytial virus fusion protein.

Claim 9(Currently Amended): The antigenic composition of Claim 4 wherein the first component antigen of (a) is a rotavirus virus-like particle.

Claim 10(Original): The antigenic composition of Claim 9 wherein the virus-like particle is a rotavirus 2/6-virus-like particle.

Claim 11(Currently Amended): The antigenic composition of Claim 4 wherein the first component antigen of (a) is HSV gD2.

Claim 12(Canceled)

Claim 13(Original): The antigenic composition of Claim 1 wherein the antigenic composition further comprises a diluent or carrier.

Claim 14(Original): The antigenic composition of Claim 1 which further comprises a second adjuvant in addition to the mutant cholera holotoxin.

Claim 15(Previously Presented): The antigenic composition of Claim 1, wherein at least one additional mutation is made to the A subunit of the mutant cholera holotoxin at a position other than amino acid 29, wherein said mutant holotoxin with said additional mutation enhances the immune response in a vertebrate host to said antigen.

Claim 16(Currently Amended): The antigenic composition of Claim 15 wherein the at least one additional mutation is made as a substitution for an amino acid of cholera holotoxin selected from the group consisting of the arginine at amino acid 7, the aspartic acid at position 9, the arginine at position 11, the histidine at position 44, the valine at position 53, the arginine at position 54, the serine at position 61, the serine at position 63, the histidine at position 70, the valine at position 97, the tyrosine at position 104, the praline proline at position 106, the histidine at position 1076, the serine at position 109, the glutamic acid at position 100, the glutamic acid at position 112, the serine at position 114, the tryptophan at position 127, the arginine at position 146 and the arginine at position 192.

Claim 17(Previously Presented): A method for increasing the ability of an antigenic composition containing at least one antigen from a pathogenic organism selected from the group consisting of a bacterium, a virus, a fungus or a parasite to elicit the immune response of a vertebrate host, which comprises administering to said host an antigenic composition of Claim 1.

Claims 18-27 (Canceled)

Claim 28 (Currently Amended): The method of Claim 17 wherein the antigenic composition comprises more than one first component antigen of (a).

Claim 29(Original): The method of Claim 17 wherein the amino acid at position 29 is histidine.

Claim 30(Currently Amended): The method of Claim 17 wherein the first eomponent antigen of (a) is selected from the group consisting of the Haemophilus influenzae P4 outer membrane protein, the Haemophilus influenzae P6 outer membrane protein, the Haemophilus influenzae Hap<sub>s</sub> protein, the Helicobacter pylori urease protein, the Neisseria meningitidis rpilin, the Neisseria meningitidis PorA protein, the respiratory syncytial virus fusion protein, a rotavirus, virus-like particle and HSV gD2.

Claim 31(Currently Amended): The method of Claim 30 wherein at least one first component antigen of (a) is selected from the group consisting of the *Haemophilus influenzae* P4 outer membrane protein, the *Haemophilus influenzae* P6 outer membrane protein, the *Haemophilus influenzae* Hap<sub>s</sub> protein, and any combination thereof.

Claim 32(Currently Amended): The method of Claim 30 wherein the first component antigen of (a) is the *Helicobacter pylori* urease protein.

Claim 33(Currently Amended): The method of Claim 30 wherein at least one first component antigen of (a) is selected from the group consisting of the *Neisseria meningitidis* rpilin, *Neisseria meningitidis* PorA protein of and any combination thereof.

Claim 34(Currently Amended): The method of Claim 30 wherein the first component antigen of (a) is the respiratory syncytial virus fusion protein.

Claim 35(Currently Amended): The method of Claim 30 wherein the first component antigen of (a) is a rotavirus virus-like particle.

Claim 36(Original): The method of Claim 35 wherein the virus-like particle is a rotavirus 2/6-virus-like particle.

Claim 37(Currently Amended): The method of Claim 30 wherein the first eomponent antigen of (a) is HSV gD2.

Claim 38(Canceled)

Claim 39(Original): The method of Claim 17 wherein the antigenic composition further comprises a diluent or carrier.

Claim 40(Original): The method of Claim 17 wherein the antigenic composition further comprises a second adjuvant in addition to the mutant cholera holotoxin.

Claim 41(Previously Presented): The method of Claim 17 wherein at least one additional mutation is made to the A subunit of the mutant cholera holotoxin at a position other than amino acid 29, wherein said mutant holotoxin with said additional mutation enhances the immune response in a vertebrate host to said antigen.

Claim 42(Currently Amended): The method of Claim 41 wherein the at least one additional mutation is made as a substitution for an amino acid of cholera holotoxin selected from the group consisting of the arginine at amino acid 7, the aspartic acid at position 9, the arginine at position 11, the histidine at position 44, the valine at position 53, the arginine at position 54, the serine at position 61, the serine at position 63, the histidine at position 70, the valine at position 97, the tyrosine at position 104, the praline proline at position 106, the histidine at position 1076, the serine at position 109, the glutamic acid at position 112, the serine at position 114, the tryptophan at position 127, the arginine at position 146 and the arginine at position 192.

Claim 43(Currently Amended): A method of preparing an antigenic composition comprising combining

